

SERVICE MANUAL

AVRANCHES AUTOMATIC PRESENTS



Before using this product, read this **SERVICE MANUAL** carefully to understand the contents stated herein.

Manufactured in France by **AVRANCHES AUTOMATIC**



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Avranches Automatic

11 ZA CROMEL – 50220 SAINT QUENTIN SUR LE HOMME – FRANCE

TEL (33) 02 33 89 61 62 – FAX (33) 02 33 89 61 63

Web Site : WWW.avranchesautomatic.com

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About this product

- Thank you for purchasing this AVRANCHES AUTOMATIC product. This manual explains how to operate your machine correctly and safely
- ▼
- Failure to operate the machine correctly could result in malfunction or accidents, so please read this manual carefully before commencing operation. Be sure to operate the machine as described in this manual.
 - Keep this manual carefully so as to be ready for use when necessary.
 - If the machine still fails to display or to get started, immediately turn OFF the main power switch and contact your nearest dealer.
 - The specification of this product are subject to change without the notice for reasons such as improving the performance.

Precautions for use

In this manual, the precautions to be followed without fail in order to prevent damage to persons to install, use or maintain "AKUMA BI-OPTIC", or other persons, or to properties, are shown as follows.

Be sure to read the following

The following suggestions show the degree of danger and damage caused when the product is used improperly with the suggestions disregarded.



Indicates a situation where disregarding the suggestions could result in death or serious injury.



Indicates a situation where disregarding the suggestions could result in injury or product damage.

IMPORTANT : EVEN WITH POWER OFF, A HIGH 220 VOLTAGE WILL CONTINUE FOR 4 MN, BECAUSE OF THE UPS

Setting up

Warning

- **Definitions of qualified in-shop maintenance persons and industry specialist who handle this product.**
 - Replacing the machine parts, inspecting and maintaining the machines, and troubles must be assigned only to a qualified in-shop maintenance person or industry specialist.
 - This product should not be set up, moved or transported by anyone than an industry specialist. Doing so could result in injury or product damage.
 - When installing the machine, make sure that all the 16 adjusters are tight on the floor and that the machine is placed stably and horizontally.
 - When setting up this product, take care that no undue force is applied to the opening / closing sections of the game machine. Failure to do so could cause injury or product damage.
- **This product is an indoor game machine. Never set up the game machine outside**
 - Setting up the product outside could result in accidents or equipment failure.
- **Do not set up the game machine near emergency exits**
 - Doing so could block exits in time of emergency and could result in death or serious injury.
- **Do not set up the game machine.**
 - In a place exposed to rain or moisture.
 - In a place exposed to direct sunlight.
 - In a place exposed to direct heat from air-conditioning and heating equipment, etc..
 - Near hazardous flammable substance such as thinner and kerosene.
 - On an inclined or uneven floor
 - In a place exposed to strong vibration.
 - In a place exposed to excessive dust.
 - Near equipment generating strong magnetism or electricomagnetic waves.

Otherwise an accident or malfunction may result
- **Do not place containers holding chemicals or water on or near the game machine.**
 - Electrical shock or damage could be caused by water or foreign matter entering the inside of the machine.
- **Do not place objects near the ventilation holes**
 - Doing so could cause the internal temperature to rise excessively, resulting in fire equipment failure.
- **Do not bend the power cord by force or place heavy object on it.**
 - Doing so could result in electric leakage or fire.
- **Never plug or unplug the power cord with wet hand**
 - Doing so could result in electrical shock.
- **Never unplug by pulling the power cord**
 - Doing so could damage the cord, resulting in electric leakage or fire.

Setting up

Caution

- **Be sure to use indoor wiring within the specified voltage range. For extension cord, use indoor wiring of the specified rating or more.**
 - Failure to do so could result in fire or equipment failure
- **Be sure to use the attached power cord.**
 - Otherwise a fire or machine trouble may result.
- **Lay the power cord away from the passages where people walk along.**
 - Otherwise people may trip over them and get injured. The cable may also be stepped on and get damaged.
- **Be sure to ground this product.**
 - Otherwise an electric shock or machine trouble may be caused.
- **Never plug more than one cord at a time in the electrical receptacle.**
 - Doing so could result in fire or electrical shock.

Operation

Warning

- **If there is any abnormality such as smoke, bad smell or abnormal noise being emitted from the machine, immediately turn OFF the main power switch and unplug the power cord from the receptacle to stop operating it.**
 - Using the machine in abnormal conditions could result in fire or accidents.

In case of abnormality

1. Turn OFF the main power switch
2. Unplug the power cord from the receptacle
3. Contact the nearest dealer

IMPORTANT : EVEN WITH POWER OFF, A HIGH 220 VOLTAGE WILL CONTINUE FOR 4 MN, BECAUSE OF THE UPS

- **Do not leave the power cord plugged improperly or covered with dust**
 - Doing so could result in electrical shock or fire, so inspect the power cord periodically.
 -
- **Never disassemble , repair or modify any section other than those specified in this manual**
 - Doing so could result in fire, malfunction or equipment failure
 - We do not assume any responsibility for any damages that would be caused by tampering with the machine.

Operation

Caution

- **Do not use this product anywhere other than industrial areas.**
 - Using in a residential area or an area next to a residential area could affect signal reception of radios, television sets, telephones, etc...
 - The following users should not play the game
 - Those under the influence of alcohol.
 - Those suffering from or being treated for arm or wrist ailments.
 - Those suffering high blood pressure or heart ailments
- **Ask players not to roughly handle or wave the game.**
 - An injury or machine trouble may result. Breaking the glass could hurt somebody
- **Do not plug or unplug the power cord with wet hands**
 - Doing so could result in electrical shock
- **In handling the power cord, follow the instructions below.**
 - Do not damage the power cord
 - Do not bend the power cord excessively
 - Do not heat the power cord
 - Do not bind the power cord
 - Do not sandwich the power cord
 - Do not modify the power cord
 - Do not twist the power cord
 - Do not pull the power cord
 - Do not tread on the power cord
 - Do not drive a nail into the power cord
- **If the power cord or power plug becomes damaged, stop using the machine immediately and ask your nearest dealer to replace the parts.**
 - Using a damaged power cord or power plug could result in fire or electrical shock

Inspection and cleaning

Warning

- **Be sure to turn OFF the main power switch and unplug the power cord from the receptacle before inspecting or cleaning the machine.**
 - Failure to do so could result in electrical shock
- **IMPORTANT : EVEN WITH POWER OFF, A HIGH 220 VOLTAGE WILL CONTINUE FOR 4 MN, BECAUSE OF THE UPS**
- **When replacing parts, be sure to use parts of the correct specifications. Never use parts other than the specified ones.**
 - Using improper parts could result in fire or equipment failure.
- **The machine has some internal parts with high voltage. Only a qualified industry specialist is allowed to open the back of the machine. With this black door open, be very careful not to touch unnecessary parts.**
 - Otherwise an accident or electric shock may result.
- **Never disassemble, repair or modify any section other than those specified in this manual.**
 - Doing so could result in fire, malfunction or equipment failure

Inspection and cleaning

Warning

- Ask your nearest dealer to perform repairing, etc..
- We do not assume any responsibility for any damages that would be caused by tampering with the machine.
- **To clean the game machine, wipe it with a soft dampened in a neutral detergent and wrung out**
 - Using thinner or other organic solvent or alcohol may decompose the material.
 - Electrical shock or equipment failure could be caused by water entering the inside of the machine.

Moving and transportation

Caution

- **The game machine contains parts such as the monitor, electronic components and precision components which are sensitive to vibrations and impacts. Great care therefore should be taken when moving and transporting the game machine. Be sure not to let the machine tip over.**
- **Before moving the machine, be sure to turn OFF the main power switch, unplug the power cord from the receptacle and remove the power cord from the machine.**
 - Stepping on or tripping over the power cord may result in an accident or damage the machine.
- **IMPORTANT : EVEN WITH POWER OFF, A HIGH 220 VOLTAGE WILL CONTINUE FOR 4 MN, BECAUSE OF THE UPS**
- **Before moving the units, be sure to separate the main unit and Play Panel unit and fully raise the adjusters so that the machine can be moved on the casters.**
 - Otherwise accidents, machine damage or trouble may result.
- **When moving the units, be careful not to apply undue force.**
 - An accident or machine damage may result.

Precaution in handling

- **When setting up, inspecting, maintaining, moving or transporting this product, follow the procedures and instructions set forth in this manual and perform such work safely.**
- **Do not remove labels of "WARNING", "CAUTION", etc attached to the product.**
- **Do not set up, handle, inspect, maintain, move or transport this product under conditions equivalent to the condition of "WARNING" or "CAUTION" specified in this manual.**
- **If a new owner is to have this product as a result of transfer, etc., be sure to give this manual to the new owner.**

Moving and transportation

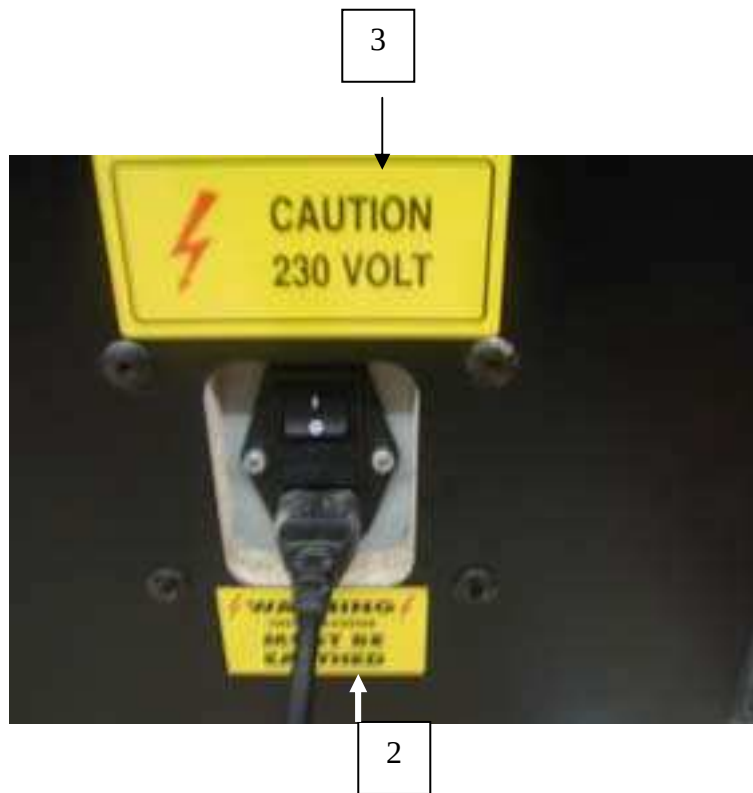
Precaution for transportation

- Shipment by road, ocean freight, air freight.....
- **IMPORTANT: EVEN WITH POWER OFF, A HIGH 220 VOLTAGE WILL CONTINUE FOR 4 MN, BECAUSE OF THE UPS.**



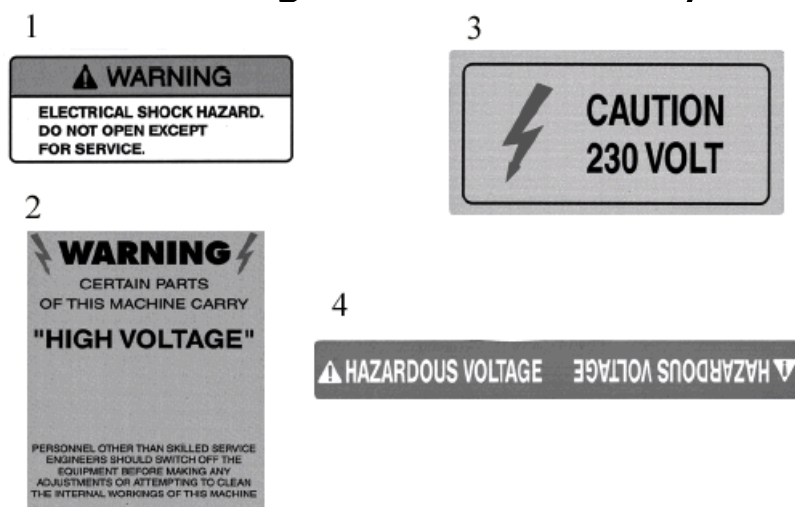
- **Before moving the machine, always disconnect the connector 2 pts AMP MINI, which is accessible by the front maintenance door of the monitor cabinet .**
- **Before putting Power ON, reconnect the connector 2 pts AMP MINI.**

Locations of warning and safety label

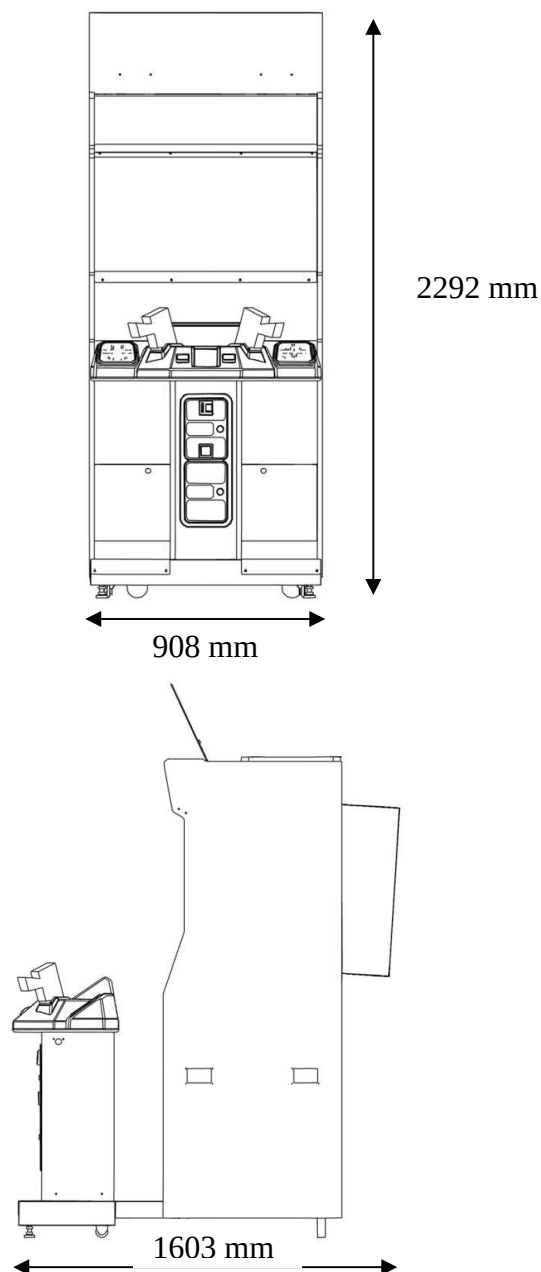


Located on the monitor backside the cabinet)

Types of warning and other safety labels



Specifications



Dimensions	Total weight : Approx 307 kgs Main unit : Approx 263 kgs Gun unit : Approx 44 kgs
Rated power consumption	580 Watts
Monitor	38" colour monitor Hantarex Polo EV3
Service condition	Temperature 10 to 35°C, Humidity 20 to 80% (No dewing is allowed)
Attachments	• Instruction manual (this manual).....1 • Projector manual 1 • Key coin door 1 • Keys coin cash door.....1 • Set of screws (connection of the 2 units) 1 • AC power cord 1

How to remove packaging

1. Unpack the unit
2. Loosen back fixation brackets pallet on cabinet
3. Loosen front fixation brackets pallet on cabinet
4. Move the cabinet from the pallet

How to fasten the adjusters

- Adjust the adjusters so that the casters do not touch the floor. Take care not to exceed the maximum adjusting height of the adjuster.
- Adjust all the adjusters so that they are parallel with the floor and make sure that the machine is stable and placed in horizontal position. Then tighten up the hexagon nuts upward.

WARNING : *It is vital to ensure that cabinet is securely mounted to the floor to avoid damage to cabinet during operation*

How to connect & separate the 2 cabinet parts

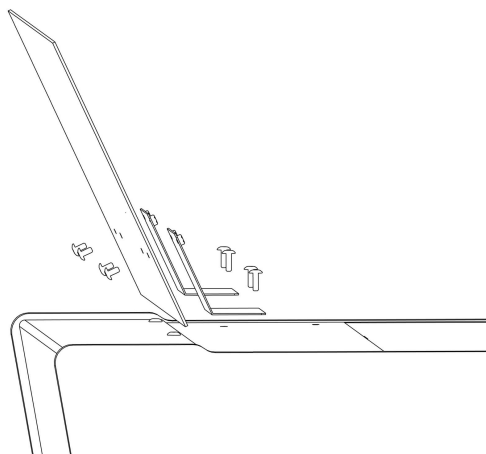
HOW TO CONNECT

- Before connection of 2 the units, play panel cabinet and monitor cabinet, be sure to turn OFF the main power switch and remove the power cord plug from the receptacle.
- **IMPORTANT : EVEN WITH POWER OFF, A HIGH 200 VOLTAGE WILL CONTINUE FOR 4MN, BECAUSE OF THE UPS.**
- To connect the play panel to the monitor cabinet, use the junction metal part provided with the cabinet and the set of screws which is located into the cash door.
- When connecting the separate units, take care not to catch the wiring and your hand between the units

HOW TO SEPARATE

- Before doing the disconnection of 2 the units, play panel cabinet and monitor cabinet, be sure to turn OFF the main power switch and remove the power cord plug from the receptacle.
- **IMPORTANT : EVEN WITH POWER OFF, A HIGH 200 VOLTAGE WILL CONTINUE FOR 4MN, BECAUSE OF THE UPS.**
- When disconnecting the separate units, take care of the wiring.

How to fit the Pop panel onto the monitor cabinet



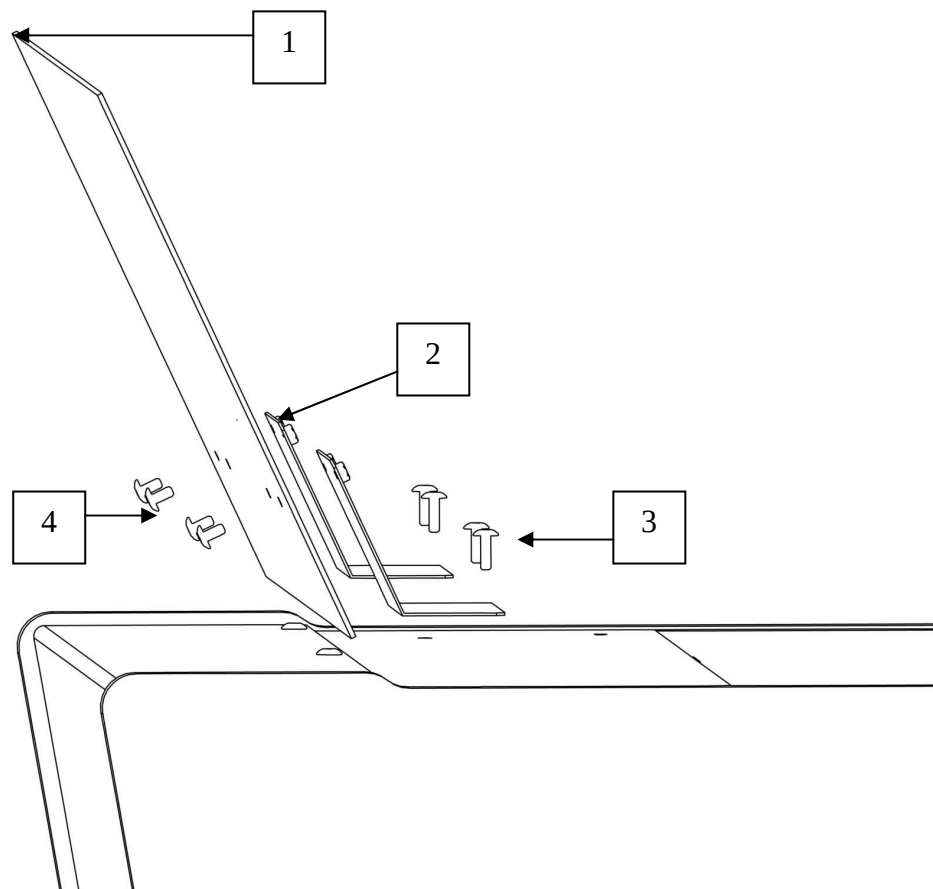
- Unscrew the screws already attached onto the 2 metal brackets, and use them to fit the Top Material to the brackets, and after the assembly set to the cabinet

Name of parts and list of main parts

Monitor Cabinet

N°	PART N°	DESIGNATION	QTY / GAME
N°1	MA111MA	PROJECTOR MIRROR 340 * 208	1
N°2	MA111MI6	HALF MIRROR 786 * 868	1
N°3	MA111UC3	PROJECTOR GLASS 82 * 200	1
N°4	MA111VC	CLEAR THOUGHENED GLASS 474 * 869	1
N°5	03H38P31K	38" COLOUR MONITOR HANTAREX POLO I EV3	1

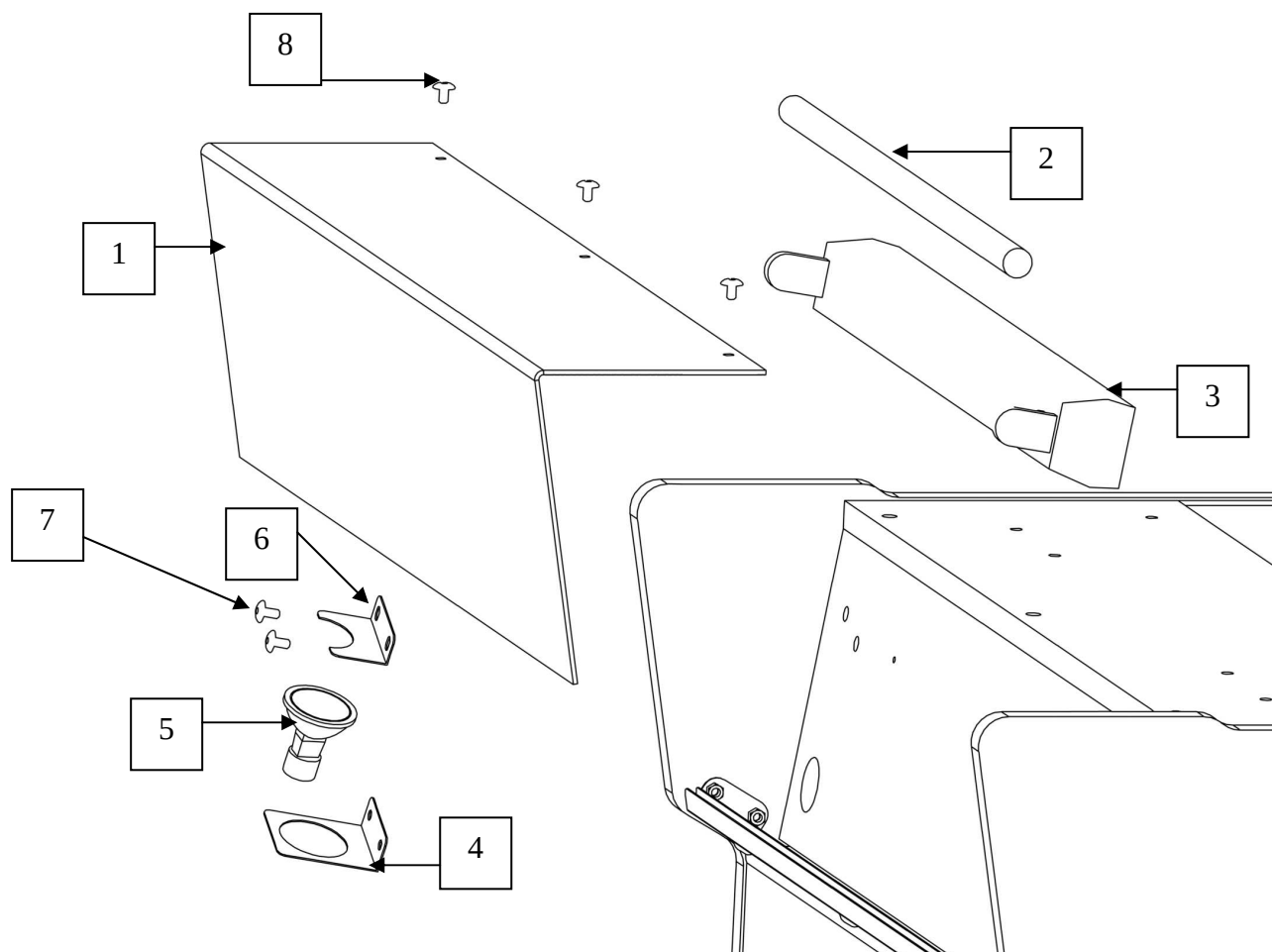
Title panel / Pop Material



N°	PART N°	DESIGNATION	QTY / GAME
N° 1	MA109FB	POP MATERIAL / FOREX TITLE	1
N° 2	MA113EP	METAL FIXATION BRACKET	2
N° 3	1POHC6*25ZNO	SCREW POEL HC 6*25 Z BLACK	4
N° 4	1POHC6*12ZNO	SCREW POEL HC 6*12 Z BLACK	4

Name of parts and list of main parts

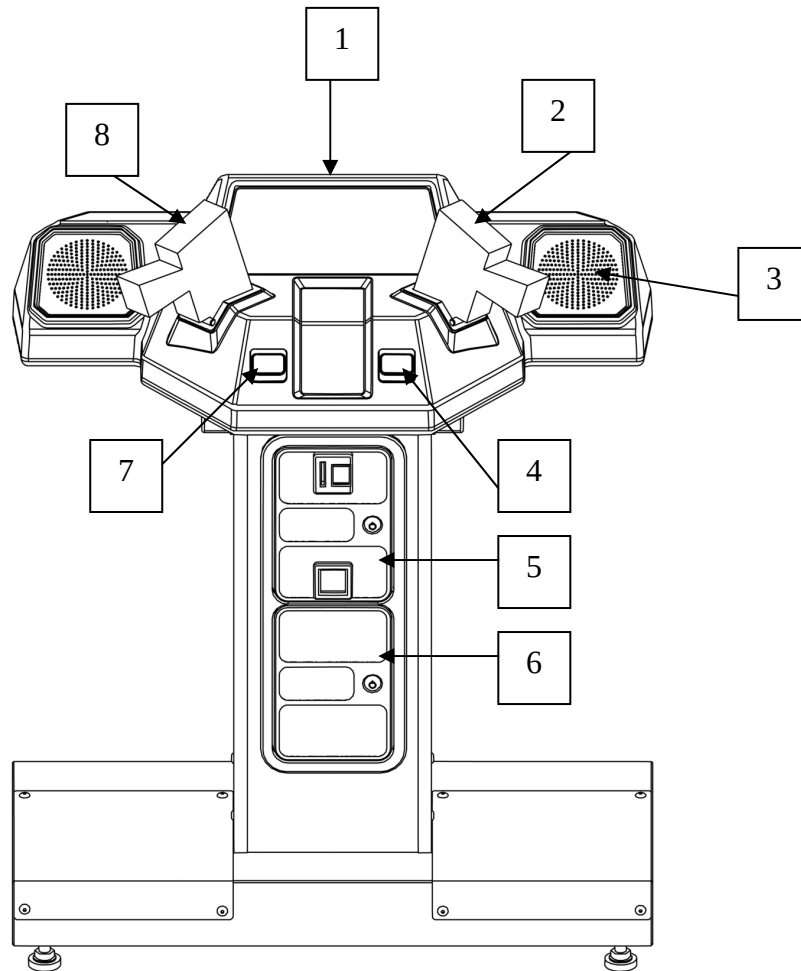
Title panel



N°	PART N°	DESIGNATION	QTY / GAME
N°1	MA109PB	FOLDED PLEXI TITLE PANEL	1
N°2	07FL18W	FLUORESCENT LIGHT 18W – DAYLIGHT	1
N°3	07R18W	FLUORESCENT TRAY	1
N°4	MA113EH	METAL BRACKET FOR HALOGEN LAMPS	4
N°5	07H12V30W60°	HALOGEN LAMP 12V-30W-60°	4
N°6	MA113SH	METAL BRACKET FOR HALOGEN LAMP	4
N°7	1POHC6*10ZNA	SCREW POEL 6*10 Z BLACK	4
N°8	1POHC6*10ZNA	SCREW POEL 6*10 Z BLACK	3

Name of parts and list of main parts

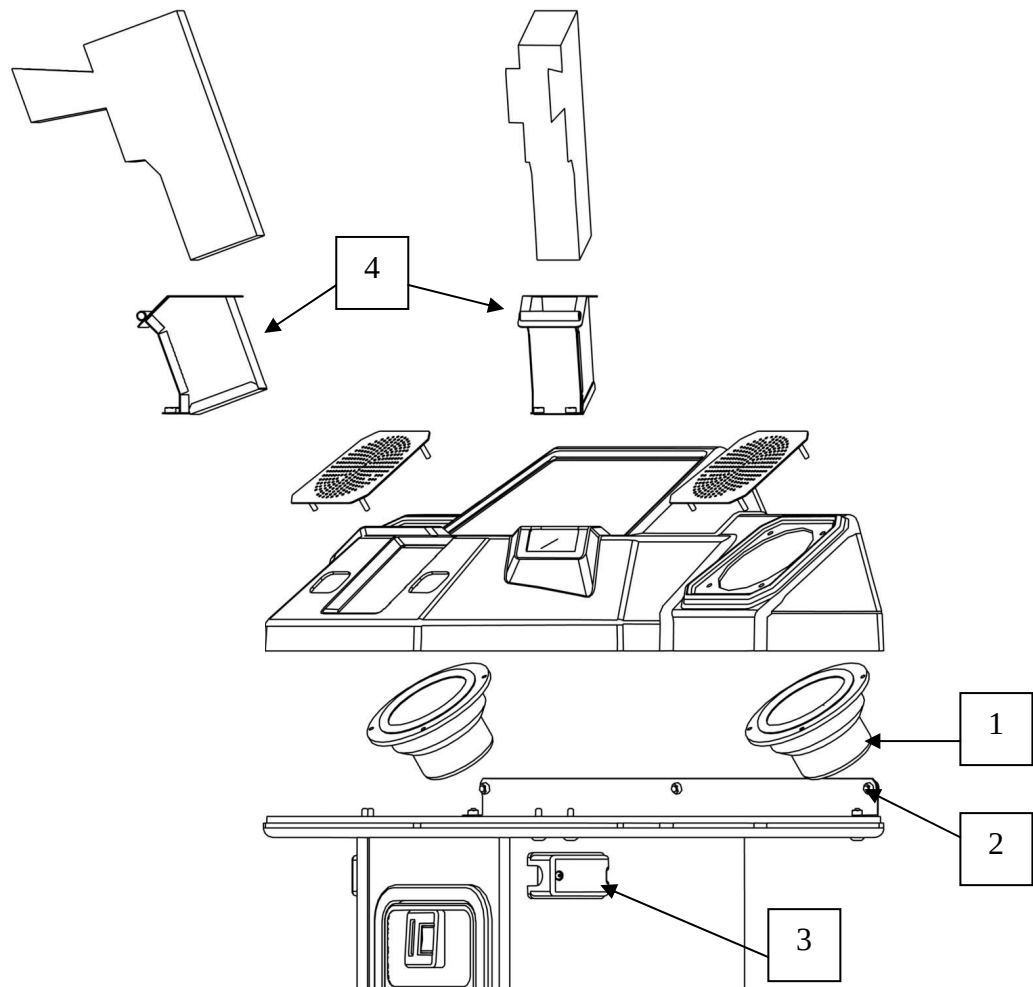
Control Play Panel



N°	PART N°	DESIGNATION	QTY / GAME
N°1	MA112P	RED VACFORM PLAY PANEL	1
N°2	MA103GUNB	BLUE RECOIL GUN	1
N°3	MA113GHP	SPEAKER METAL GRID	2
N°4	06BCB	RECTANGULAR BLUE BUTTON	1
N°5	05PCNAM	COIN CASH DOOR	1
N°6	1399B	SECURDOR	1
N°7	06BCR	RECTANGULAR RED BUTTON	1
N°8	MA103GUN	RED RECOIL GUN	1

Name of parts and list of main parts

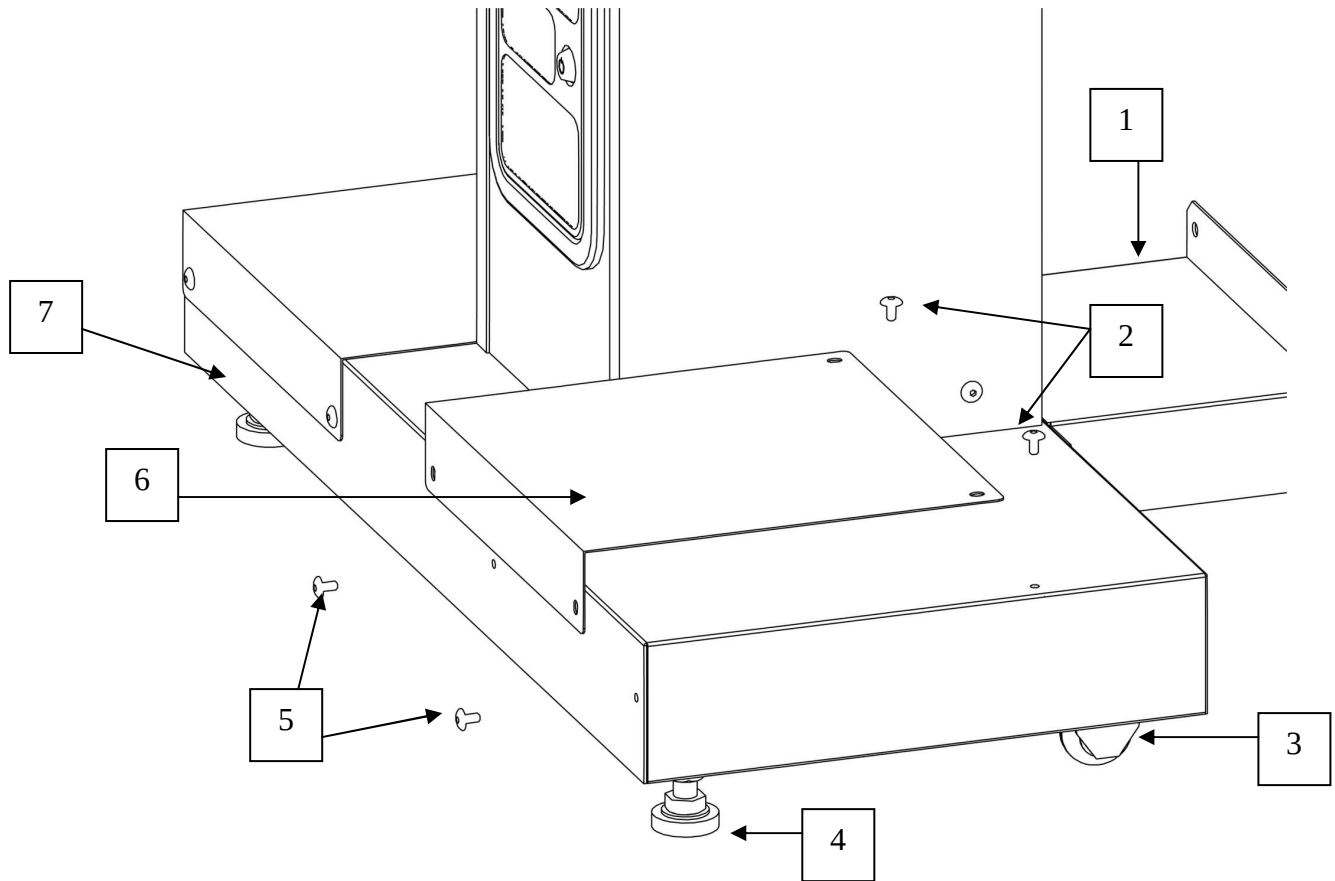
Control Play Panel



N°	PART N°	DESIGNATION	QTY / GAME
N° 1	08AP130M6-8C	SPEAKER – 130MM – COAX – 8 ohms	2
N° 2	MA113EFP	METAL BRACKET PLAY PANEL FIXATION	1
N° 3	MA112CV	PLASTIC CONNECTOR COVER	2
N° 4	MA113GH	METAL GUN HOLDER	2

Name of parts and list of main parts

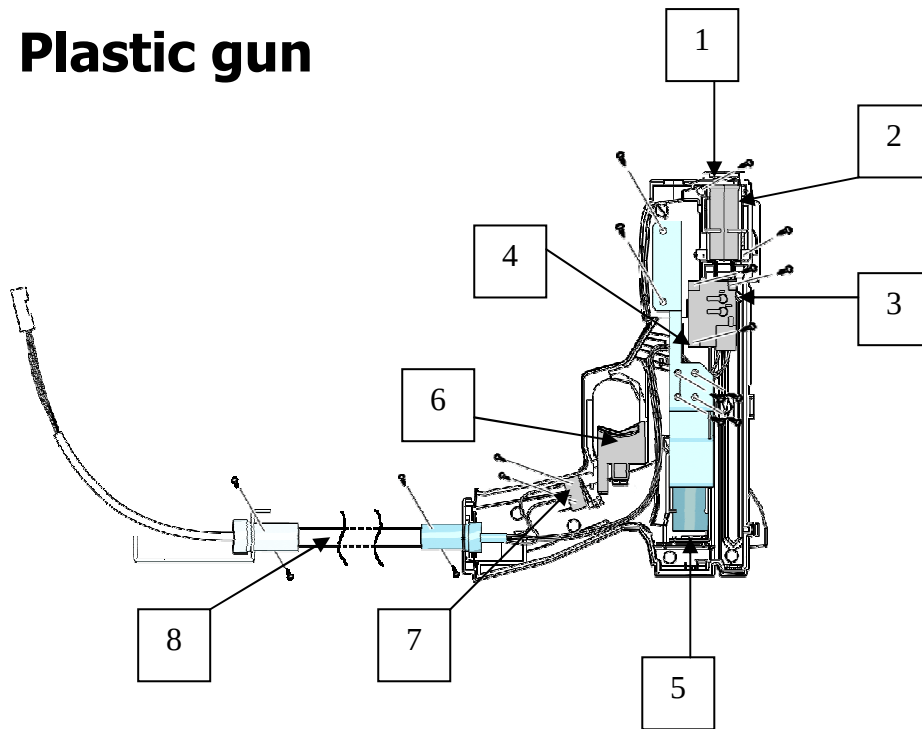
Control Play Panel



N°	PART N°	DESIGNATION	QTY / GAME
N° 1	MA113JP	JUNCTION METAL PART	1
N° 2	1POHC6*10N	POEL HC 6X 10 Z NATUREL	4
N° 3	6RF72	CASTER	2
N° 4	6VL16*102	SCREW JACK	2
N° 5	1POHC6*10NI	SCREW POEL HC 6X 10 CH	4
N° 6	MA113EBV	METAL COVER PROTECTION	2
N° 7	MA113BP	METAL BASIS	1

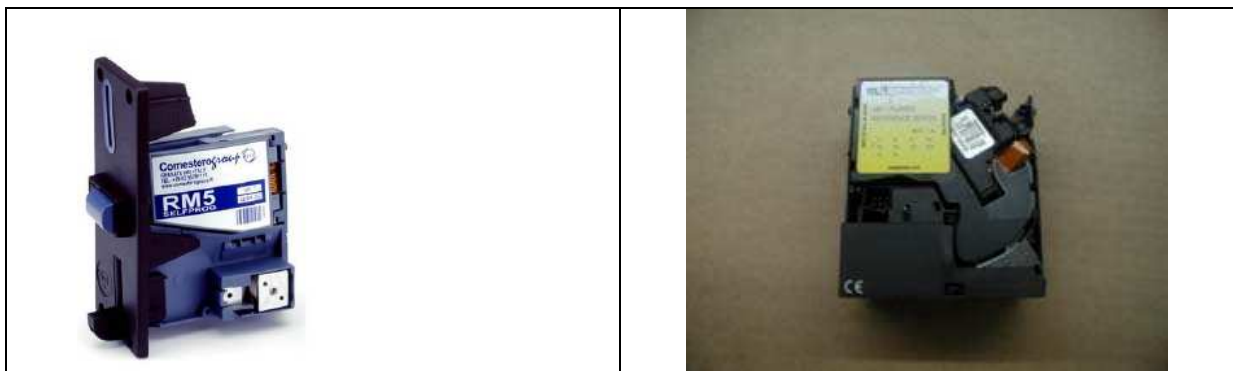
Name of parts and list of main parts

Plastic gun



N°	PART N°	DESIGNATION	QTY / GUN
N° 1	PA0008	LENS	1
N° 2	PA0009	SENSOR BRACKET	1
N° 3	PA0010	SENSOR PCB	1
N° 4	PA0011	SOLENOID BRACKET	1
N° 5	PA0012	SOLENOID CYLINDER	1
N° 6	PA0013	TRIGGER	1
N° 7	PA0014	MICRO SWITCH	1
N° 8	PA0015/16/17/18	GUN CABLE	1

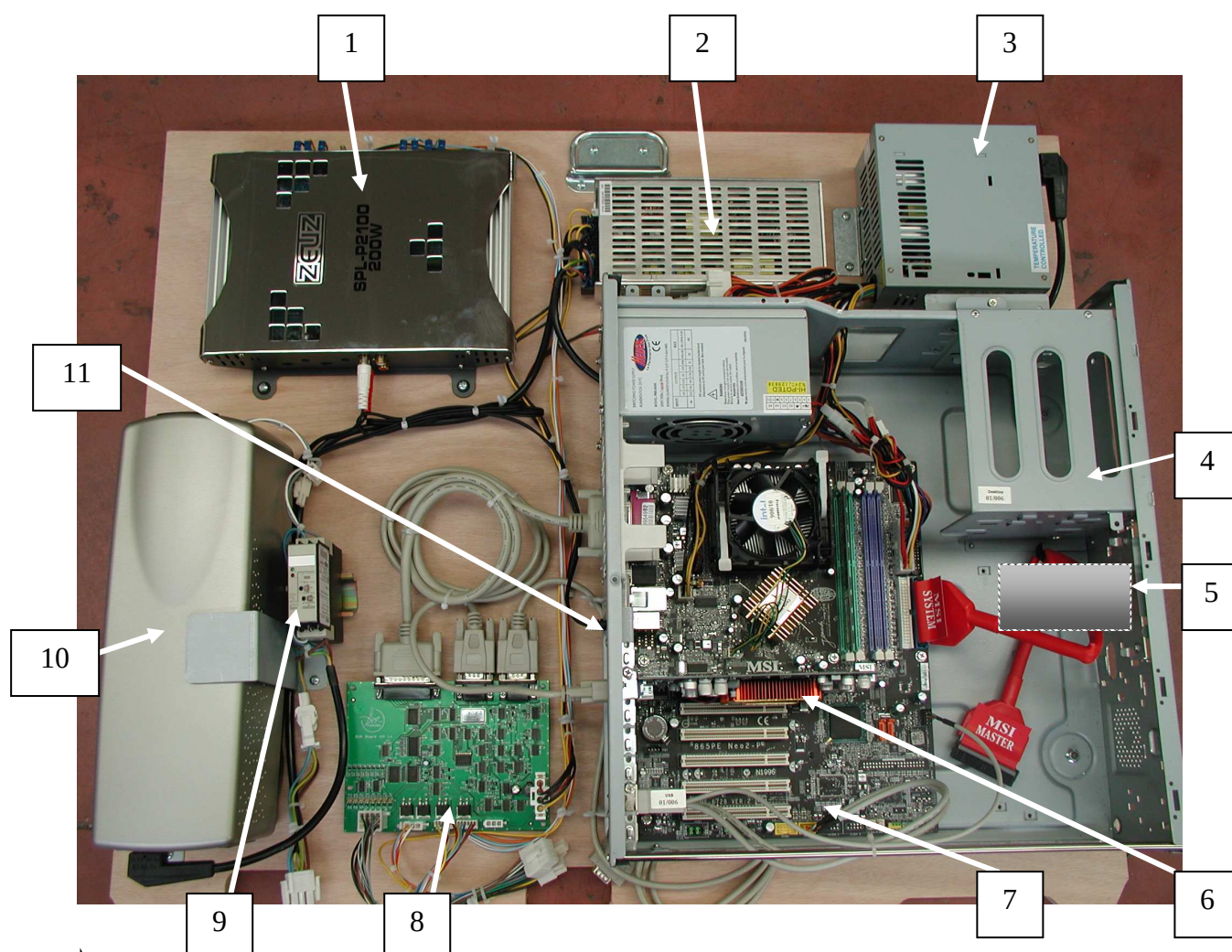
Coin mech



N°	PART N°	DESIGNATION	QTY / GAME
N° 1	05RM5	RM5 COIN MECH	1
OR			
N° 2	05CF340PR091	M.E.I CF340 COIN MECH	1

Name of parts and list of main parts

Various electronics elements

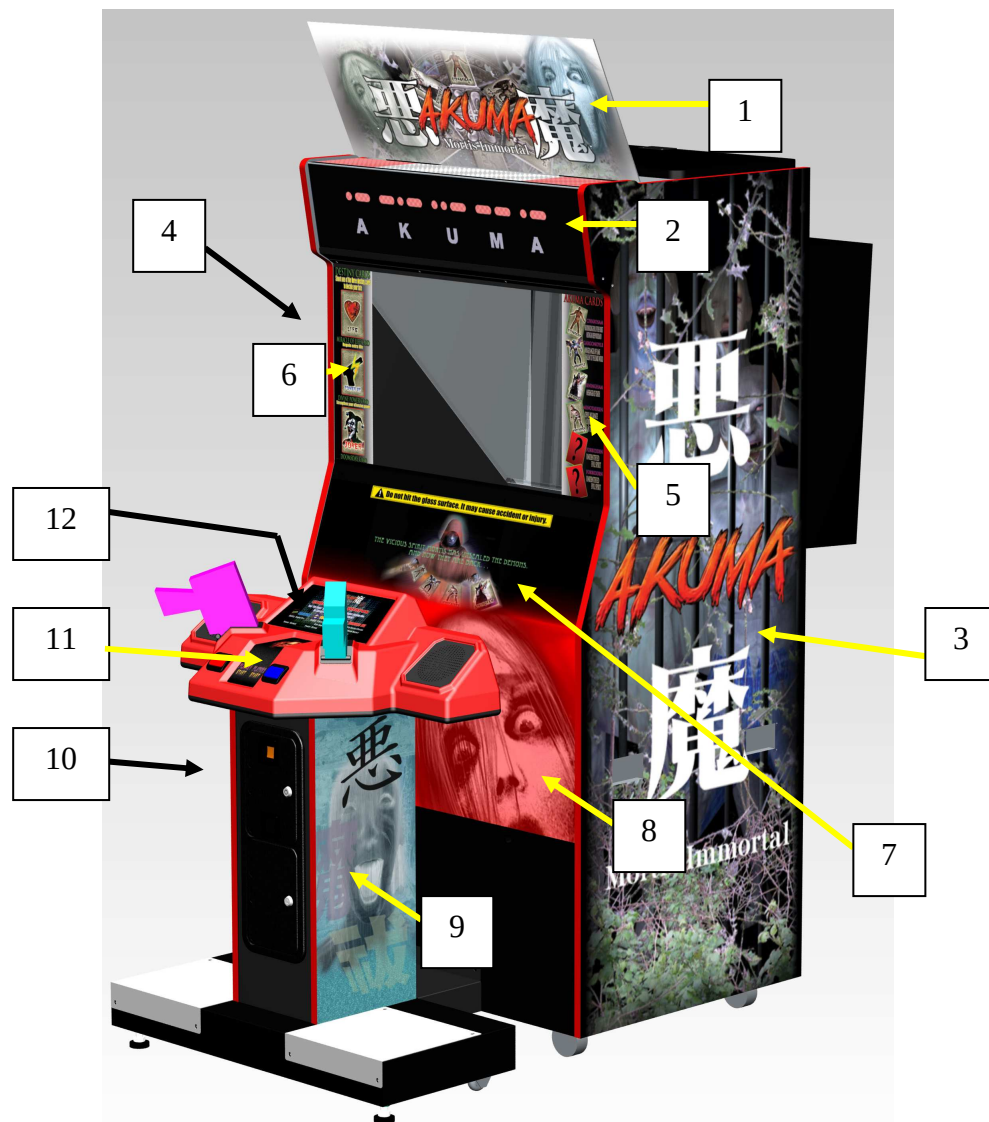


IMPORTANT : EVEN WITH POWER OFF, A HIGH 220 VOLTAGE WILL CONTINUE FOR 4 MN, BECAUSE OF THE INVERTER.

N°	PART N°	DESIGNATION	QTY / GAME
N°1	07APSB500	SOUND AMPLIFIER	1
N°2	04SPS170P/12V	POWER SUPPLY 12 V - 170W - PFC	1
N°3	04CWT300	POWER SUPPLY ATX CWT300BSP	1
N°4	MA103BD	DESKTOP CASE	1
N°5	HTS424040M9AT00	HARD DISK	1
N°6	MA103CV	VIDEO BOARD	1
N°7	MA103CM	MOTHERBOARD	1
N°8	MA103CI0G	I/O BOARD	1
N°9	07RT10M	RELAY T 0.05S/10MN	1
N°10	04ODWP65	UPS INVERTER RIELLO 650 VA 400 W	1
N°11	MA103CUSB	DONGLE	1

Name of parts and list of main parts

Artwork decals/Cabinet



N°	PART N°	DESIGNATION	QTY / GAME
N° 1	MA109FB	AKUMA MORTIS IMMORTAL POP TITLE	1
N° 2	MA109PB	AKUMA PLASTIC TITLE PANEL	1
N° 3	MA109JDM	RIGHT SIDE DECAL OF THE MONITOR CABINET	1
N° 4	MA109JGM	LEFT SIDE DECAL OF THE MONITOR CABINET	1
N° 5	MA109SGD	RIGHT STATIC DECAL MONITOR GLASS	1
N° 6	MA109SGG	LEFT STATIC DECAL MONITOR GLASS	1
N° 7	MA109MAH	« THE VICIOUS SPIRIT MORTIS » DECAL	1
N° 8	MA109MAB	THE FRIGHTENED FACE	1
N° 9	MA109JPD	RIGHT SIDE DECAL OF THE PLAY PANEL	1
N°10	MA109JPG	LEFT SIDE DECAL OF THE PLAY PANEL	1
N°11	MA109PH	PLAYER 1 & PLAYER 2 DECAL	1
N°12	MA109PC	INSTRUCTION "CHARGE YOUR WEAPON" DECAL	1

How to Play



The evil legend is reborn.

A long time ago, the beasts that massacred humans were sealed by a brave warrior. Sealed into a holy talisman stone, "The Circle of Light".

But now, the vicious spirit Mortis has unsealed the demons.

And now they are back.

In order to revive the Circle of Light, Akuma cards must be fused into one of the two foundation stones.

The slot you choose will decide your next destination.

When all 6 cards are fused, the foundation stones will react and the dark spirits will be sealed once more.

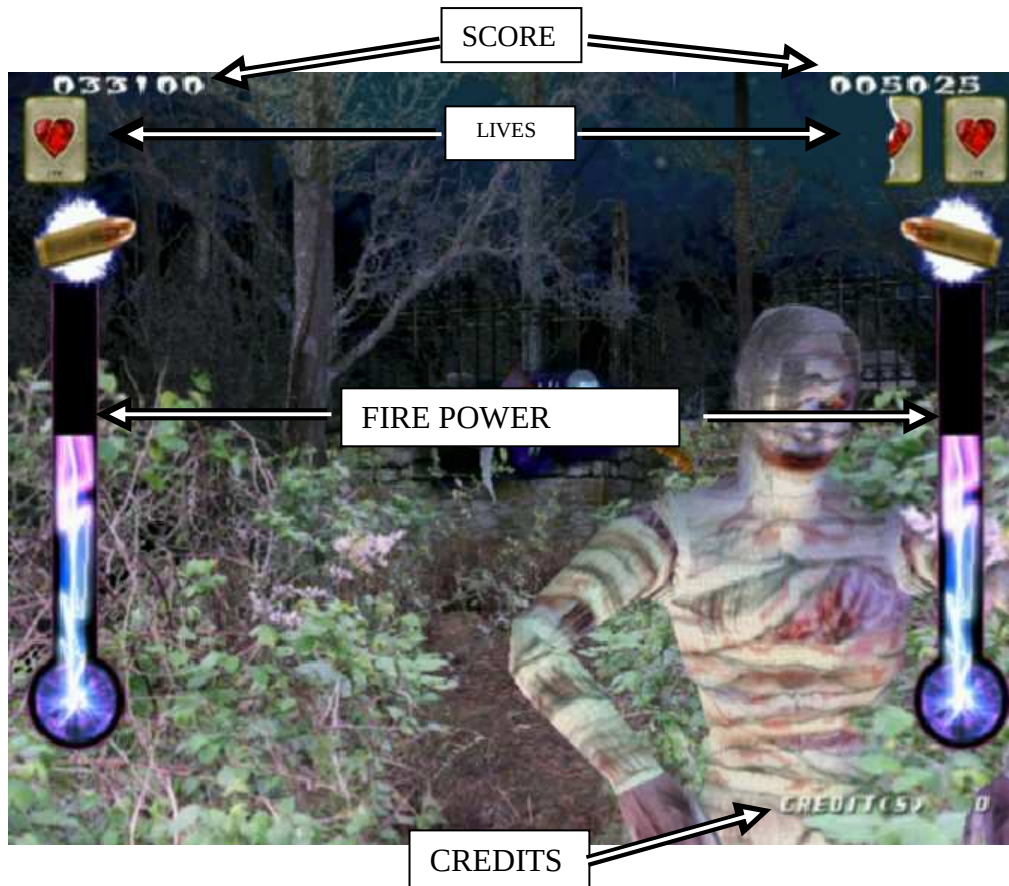
Follow the dark legend of "Akuma" in this revolutionary new games.

Evil rituals have unbound terrifying demons from the curse that locked them inside sacred runes. Choose your target using the awesome tactical "rune" system, unique to this game, then hunt your opponent through many nightmarish locations adding a level of depth and immersion never seen in arcade shooters before!

Using the amazing "Bi-Optic" 3D system, the beasts you encounter will literally fly out of the screen at you. This awesome new technology allows visuals so realistic that you could almost reach out and touch their grotesque forms. Each beast you defeat opens a depth further into the dark and intense environment challenging players. This combined with the intense 3D state of the art graphics makes "Akuma Mortis Immortal" the most scary and exciting video game experience this year!

How to Play

GAME SCREEN



SCORE : This is increased when you shot enemies

LIVES : These are reduced when you take damage from enemies. When all lives are gone, "CONTINUE" will be displayed.

CREDITS : The number of remaining coin.

FIRE POWER GAUGE : Your "Fire Power" will vary depending on your weapon charging time.

Adjusting the machine

Test mode



(Please press the TEST button located in the Service Door)

Select a menu item using the gun trigger (P1/P2)
The selected menu item will appear highlighted in green.
Enter the chosen menu item by pressing the 'START' button.

RETURN TO THE GAME

Return to Game mode, terminating the Test mode.

GAME SETTING

Several settings on Game preference.

I/O CHECK

Check the status of I/O devices.

GUN SETTING

Check the gun adjustment.

SOUND CHECK

Check and control volume and speakers..

SCREEN CHECK

Check screen position and colour for monitor adjustment.

COIN CHECK

Adjust coin settings for Start and Continue.

BOOK KEEPING

Check income statistics and clock setting.

CLEAR RANKING DATA

Resume to factory ranking data..

RESET ALL SETTINGS

Resume to factory setting.

Adjusting the machine

Game Setting



Select the menu item using the gun trigger .
Enter the menu item by pressing the 'START' button.

The current status is shown in green letters. Once you have chosen a different mode, the option is shown in red letters.

To save the new setting please choose 'SAVE AND EXIT', then press 'START'.

To cancel the new setting choose 'EXIT WITHOUT SAVING', then press 'START'.

GAME DIFFICULTY

Choose the game difficulty from VERY EASY, EASY, MEDIUM, HARD and VERY HARD
MEDIUM is the default setting when delivered.

GUN RECOIL

Select the feedback of the gun recoil.

ENABLE : Feedback (default).

DISABLE : No feedback.

SUBTITLE

Select the subtitle in game mode.

OFF : No subtitle(default).

FRENCH :

JAPANESE :

SCREEN FLIP MODE

Select the direction of the screen flip.

DIRECT : No flip

MIRROR : left - right flip

MIRROR-180 : left-right and up side down (default)

Adjusting the machine

I/O Check



Check all status of each I/O item.

INPUT CHECK

Check all buttons:

When you press each button the display shows ON and OFF accordingly.

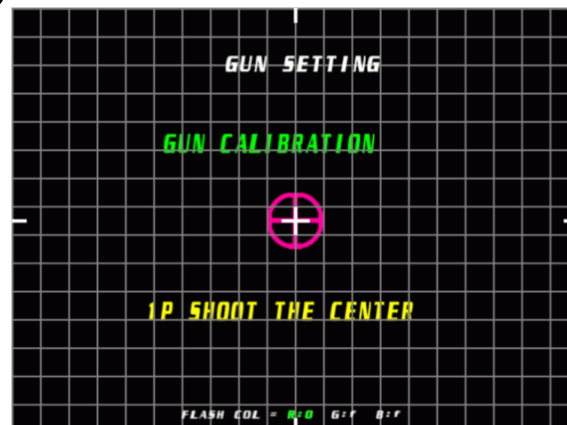
OUTPUT CHECK

Lamp Checks.

Check the 'P1 START' lamp by pressing 'TEST' and 'P1 START' buttons simultaneously, and check the 'P2 START' lamp by pressing 'TEST' and 'P2 START' buttons simultaneously.

To terminate the I/O Check mode press 'TEST' and 'SERVICE' buttons at the same time.

Gun Setting



Check and calibration of the bullet hit position.

Calibrate the gun by pulling the trigger of Player 1 while pressing the "START" button of Player 1

Calibrate the gun by pulling the trigger of Player 2 while pressing the "START" button of Player 2.

Pull the trigger of the gun aiming the centre of the two crosses (both front and rear) after correcting your position to see two crosses as one on the "GUN CALIBRATION" mode.

Adjusting the machine

Sound Setting



You can control the volume of both the game sound and attract demo loop. and also conduct a speaker check

VOLUME

Control the volume of all sound in the Game mode by pressing 'P1 START' (for higher volume) or 'P2 START' (for lower volume). The volume can be set between 0 (Min) and 20 (Max).

ATTRACT SOUND

Control the sound in the Attract Demo loop.

Press the 'START' button to choose one of the following items.

- ON : Same volume as set for VOLUME.
- MUTE : Lower than above Volume setting during the Attract Demo loop.
- OFF : No sound during the Attract Demo loop.

GAME BGM

Control the sound in the game mode.

Press the 'START' button to choose one of the following items.

- ON : Same volume as set for VOLUME.
- OFF : No bgm sound during the game mode.

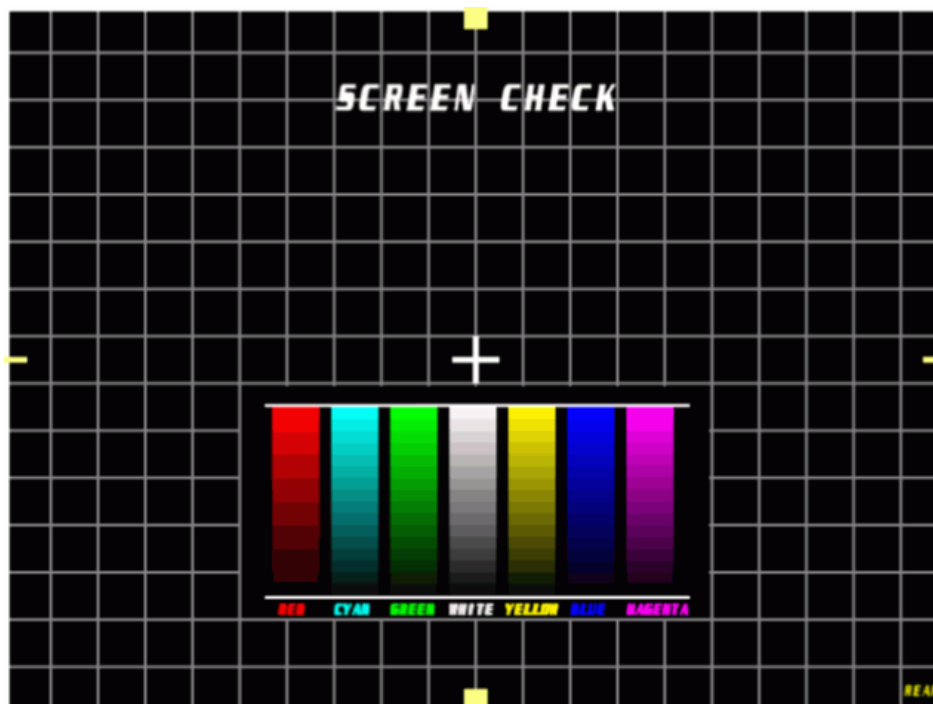
SPEAKER CHECK

Check Left and Right speakers.

Check the left speaker by pressing the 'P1 START' button, and the right speaker by pressing the 'P2 START' button.

Adjusting the machine

Screen Check



Adjust the screen position and colour.

When adjusting the monitor and the projector colour, ensure that each of the seven colour bars have equally stepped shades of that colour, and that none of the steps on that bar merge into the same shade. Whilst doing this, also ensure that both the screen background, and the bottom-most step of each of the colour bars, is as close to pure black as possible.

To exit this mode, press the 'START' button.

Front monitor

Adjust the front screen position making all outer frames to be displayed within the screen.

Rear Projector

Adjust the screen position and zoom making all blinking points and lines to be displayed within the screen.

* You can choose the display of front or rear screen by pulling trigger of either Player 1 or Player 2 to get calibration screen separately.

Adjusting the machine

Coin Setting



Set the Start coin and Continue coin.

FREE PLAY

If you choose 'FREE PLAY ON', other coin settings cannot be modified.

START CREDITS

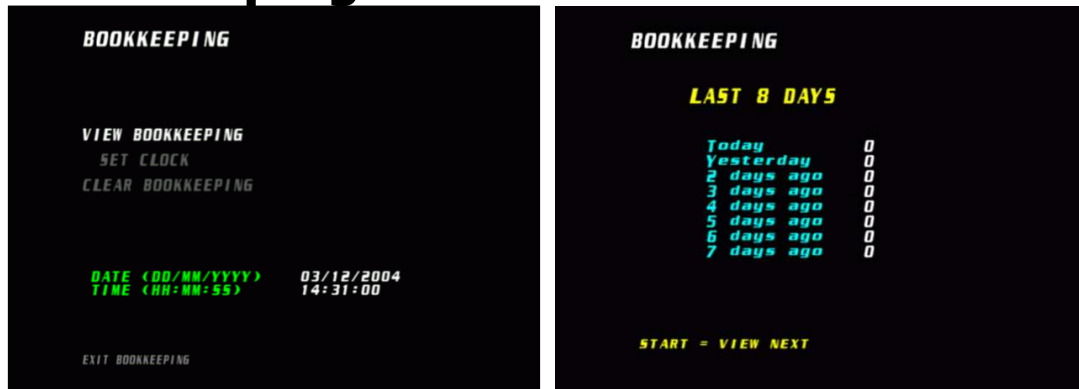
Set the number of coins/credits to enable a game start.

CONTINUE CREDITS

Set the number of coins/credits to enable a 'continue' during game-play.

Adjusting the machine

Book Keeping



Display the income statistics



Unless Date and Time are set correctly, the statistics will show incorrect data. Therefore, please ensure that Date and Time are correctly set.

To delete all income data statistics, choose 'CLEAR BOOKKEEPING'

CLEAR RANKING DATA

It asks 'YES' or 'NO' twice if this item is chosen.

All recorded ranking data will be reset if it is chosen 'YES'.

RESET ALL SETTINGS

Resume the factory setting.

It asks 'YES' or 'NO' twice if this item is chosen.

All changes made will be reset if you choice 'YES'.

Maintenance and Annex

Opening and closing the maintenance door

- Take care to not apply any load or impact to the maintenance door when it is opened.
- After closing the maintenance door, be sure to check that the door is locked securely.



How to open the maintenance door

1. Insert the attached maintenance key in the maintenance door and turn it clockwise.
2. Open the maintenance door.

How to close the maintenance door

1. Close the maintenance door.
2. Turn the maintenance key counter clockwise and draw it out

Opening and closing the coin door and removing the Coin box.

- Take care to not apply any load or impact to the coin door when it is open.
- Note that the coin box is considerably heavy to take out if it is full of coins.
- Securely lock the door for protection against burglaries.

1. Insert the attached coin door key in the coin door and turn it clockwise
2. Open the coin door and take out the coin box.

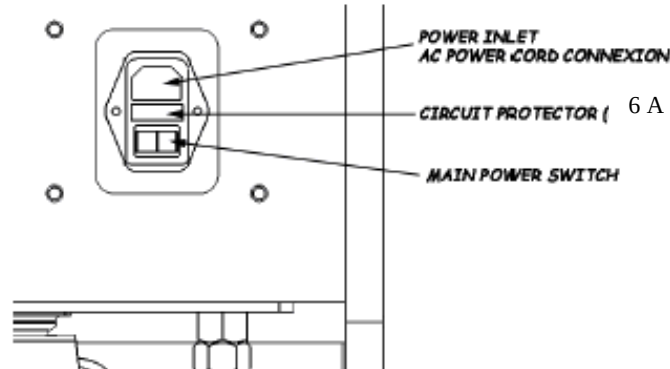


Maintenance and Ar

Power Unit

The power unit is located on the back of main unit.

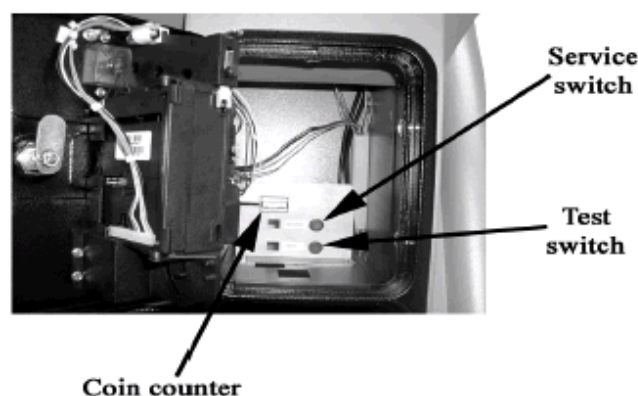
- Be sure to use the attached AC power cord.
- Be sure to ground to the machine.
- Never connect the grounding wire to gas pipe, water pipe or telephone ground terminal



IMPORTANT : EVEN WITH POWER OFF, A HIGH 220 VOLTAGE WILL CONTINUE FOR 4 MN, BECAUSE OF THE INVERTER.

Service Panel

- You will find the service panel when the maintenance door is opened with the attached maintenance key.

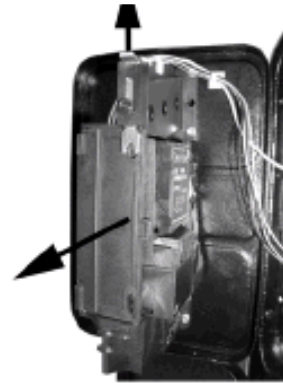


Maintenance and Annex

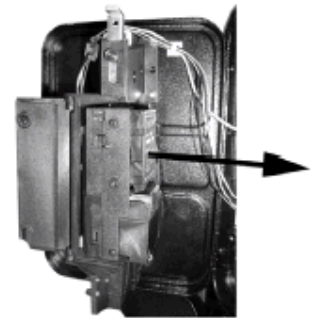
Replacing the Coin Selector

- **Open the maintenance door selector; be sure to turn OFF the main power switch and unplug the power cord from the receptacle.**

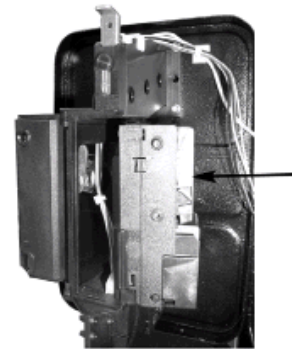
- 1.** Open the maintenance door.
Move the small metal part up.
Move the small plastic door to the left, to remove.



- 2.** Slide the coin selector to the right and take it out.



- 3.** To reattach the coin selector
While holding left the small plastic door, slide the coin selector to the left for fitting it into position.



- 4.** Move the small plastic door into position.
Move down the small metal part and close the maintenance door.

Maintenance and Annex

Replacing the fluorescent light

- **Before replacing the fluorescent light, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.**
- **IMPORTANT : EVEN WITH POWER OFF, A HIGH 220 VOLTAGE WILL CONTINUE FOR 4 MN, BECAUSE OF THE INVERTER.**

- **The fluorescent light is hot just after it is switched off. Wait until it cools down and then replace it with a new one of the same type.**
- **When installing and removing the fluorescent light unit, take care not to damage the wiring connecting the fluorescent light unit and the game machine.**

Resetting the circuit protector

If an over current or short circuit occurs, the circuit protector will be automatically actuated to protect the electric circuits of the game machine. When resetting the circuit protector, turn OFF the main power switch, unplug the power cord from the receptacle, eliminate the cause, and then press the button of the circuit protector.

How to reset the circuit protector

- **Before resetting the circuit protector, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.**
 - **IMPORTANT : EVEN WITH POWER OFF, A HIGH 220 VOLTAGE WILL CONTINUE FOR 4 MN, BECAUSE OF THE INVERTER.**
 - **If the circuit protector trips soon again, immediately turn OFF the main power switch, unplug the power cord, and contact your nearest dealer.**
 - **If the machine is in abnormal conditions and does not operate normally, immediately turn OFF the power switch, unplug the power cord from the receptacle and contact your nearest dealer.**
1. Open the little drawer at the power unit.
 2. Change the fuse

Fuse 5 A

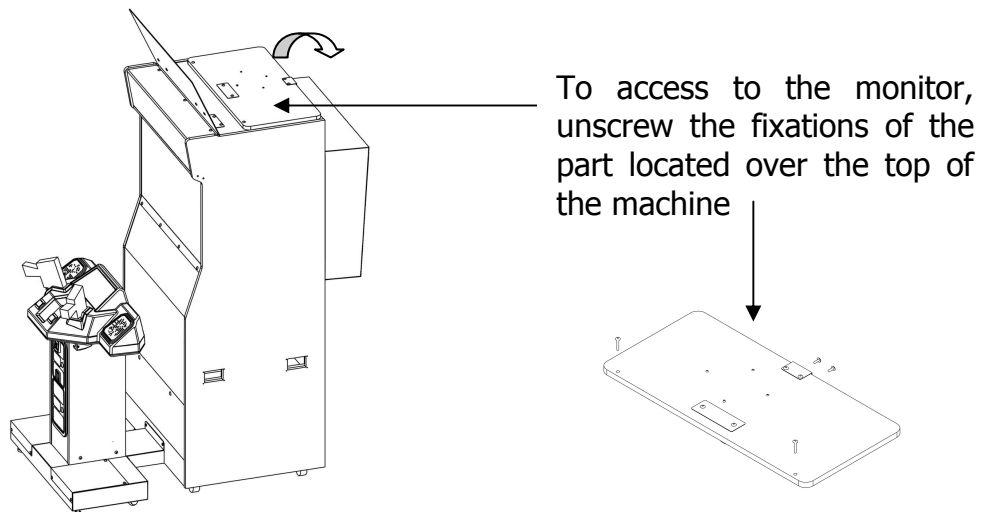


Maintenance and Annex

Adjusting the monitor

- The monitor has already been adjusted at the time of shipment, but may be readjusted as desired.
 - The machine has some internal parts with high voltage. Only qualified industry specialists are allowed to open the back door and box of the machine. With this back door or box open, be very careful not to touch unnecessary parts.
1. Open the front door below the monitor to access to the setting area, which is located on the left top corner, inside the cabinet, just over the Electronic drawer.
 2. For adjustments, please refer to the monitor manual.

How to access to the projector

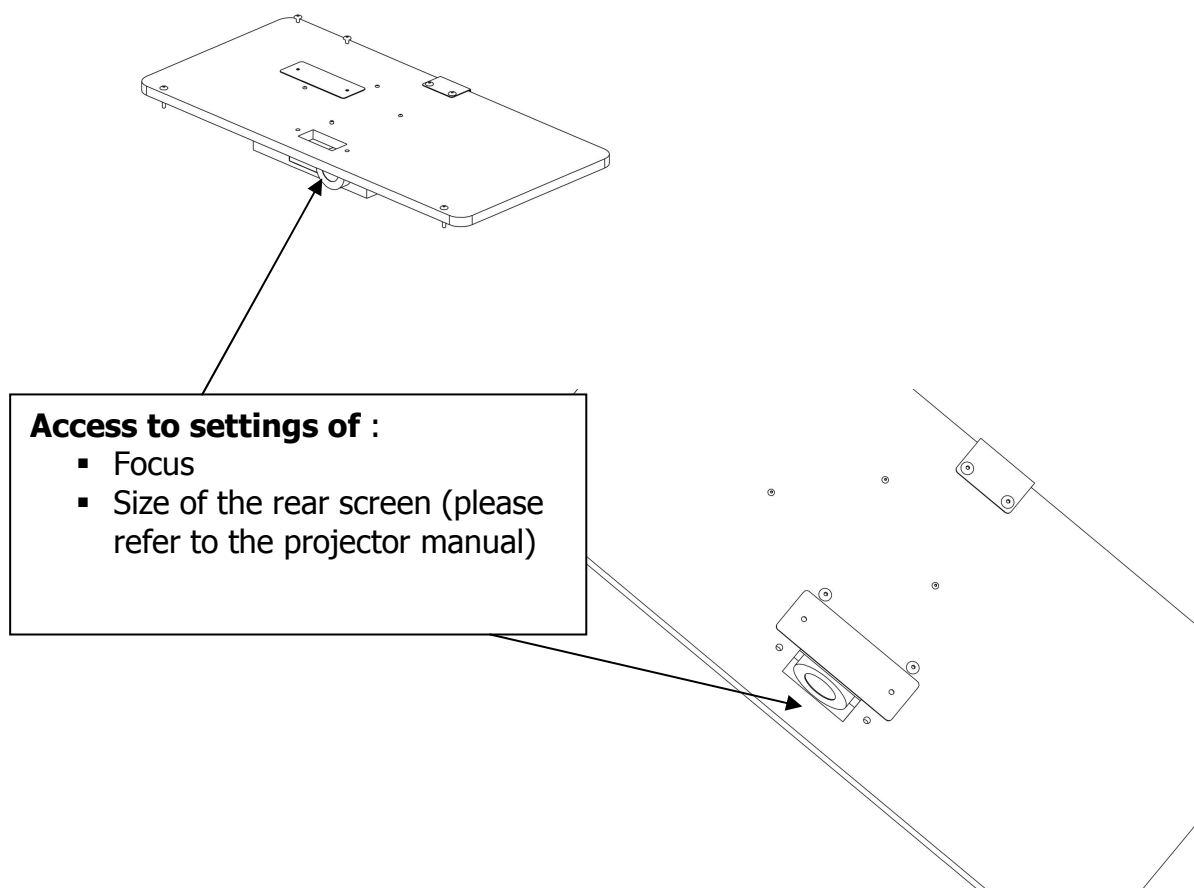


Maintenance and Annex

Setting and maintenance of the projector

- For warranty purpose, in case of faulty projector, the material must be returned packed in its original handbag. Keep carefully this handbag if you want to have the benefit of warranty.
- All the setting and operating instructions should be read before the product is operated. A projector manual is joined to this game
- Read all the instructions given in the Projector manual and retain them for later use.

➤ **Pay attention , even with power off, a high 200 voltage will continue for 4mn, which allow the projector to cool down, and for this reason the screen display a blue colour.**



- Follow all warnings and instructions marked on the projector.
- When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or injury to persons.

Maintenance and Annex

Cleaning the Air Filters

Air filters prevent dust from accumulating on the surface of the optical elements inside the projector. Should the air filters become clogged with dust particles, it will reduce cooling fans' effectiveness and may result in internal heat build up and adversely affect the life of the projector. Clean the air filters following the steps below.

- 1 Turn off the projector, and disconnect the AC power cord from the AC outlet.
- 2 Turn the projector upside down and remove the air filters by pulling the latches upward.
- 3 Clean the air filters with a brush or rinse them softly.
- 4 When cleaning the air filters by rinsing, dry them well. Replace the air filters properly. Make sure that the air filters are fully inserted.



CAUTION

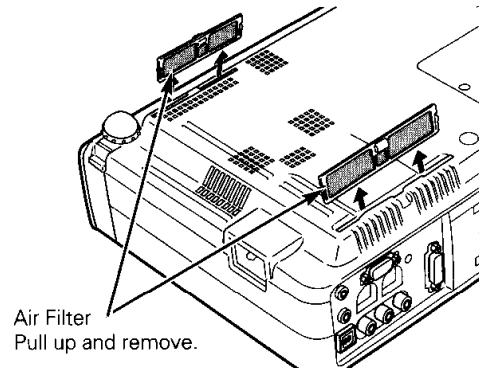
Do not operate the projector with the air filters removed. Dust may accumulate on the LCD panel and the projection mirror degrading picture quality. Do not put small parts into the air intake vents. It may result in malfunction of the projector.

RECOMMENDATION

We recommend avoiding dusty/smoky environments when operating the projector. Usage in these environments may cause poor image quality.

When using the projector under dusty or smoky conditions, dust may accumulate on a lens, LCD panels, or optical elements inside the projector. This condition may degrade the quality of a projected image.

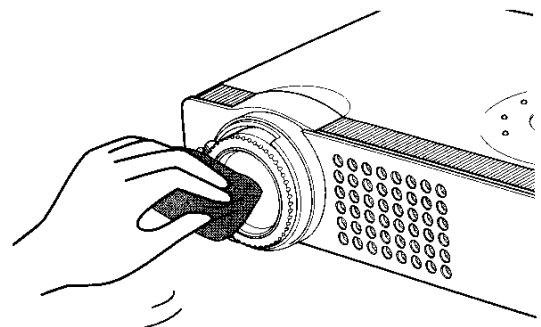
When the symptoms above are noticed, contact your authorized dealer or service station for proper cleaning.



Cleaning the Projection Lens

Follow these steps to clean the projection lens.

- 1 Disconnect the AC power cord before cleaning.
- 2 Softly wipe the projection lens with a cleaning cloth that contains a small amount of non-abrasive camera lens cleaner, or use lens cleaning paper or a commercially available air blower to clean the lens. Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents, or other harsh chemicals might scratch the surface.
- 3 When the projector is not in use, replace the lens cover.



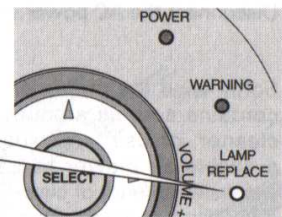
Maintenance and Annex

Lamp Replacement

When the life of the projection lamp of this projector draws to an end, the LAMP REPLACE indicator lights yellow. If this indicator lights yellow, replace the lamp with a new one promptly.

This indicator lights yellow when the life of the projection lamp draws to an end.

Top Control



CAUTION

Allow a projector to cool, for at least 45 minutes before you open the Lamp cover. The inside of the projector can become very hot.

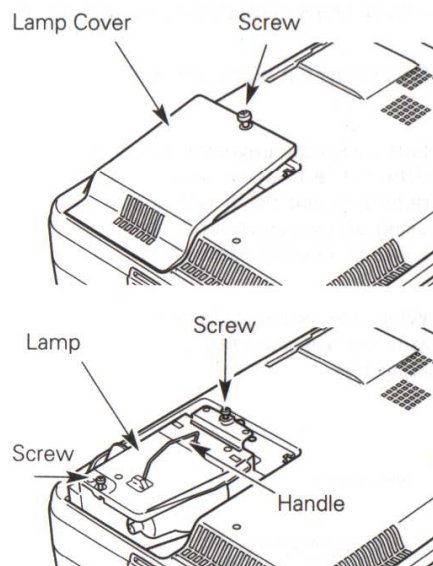


CAUTION

For continued safety, replace with a lamp of the same type. Do not drop a lamp or touch a glass bulb! The glass can shatter and may cause injury.

Follow these steps to replace the lamp.

- 1 Turn off the projector and disconnect the AC plug. Allow the projector to cool for at least 45 minutes.
- 2 Loosen the screw with a screwdriver, and remove the lamp cover.
- 3 Loosen 2 screws of the lamp with a screwdriver and pull out the lamp by grasping the handle.
- 4 Replace the lamp with a new one and tighten the 2 screws back into position. Make sure that the lamp is set properly. Replace the lamp cover and tighten the screw.
- 5 Connect the AC power cord to the projector and turn on the projector.
- 6 **Reset the Lamp replace counter.**
See "Lamp Replace Counter" on the next page.



LAMP HANDLING PRECAUTIONS

This projector uses a high-pressure lamp which must be handled carefully and properly. Improper handling may result in accidents, injury, or create a fire hazard.

- Lamp life may differ from lamp to lamp and according to the environment of use. There is no guarantee of the same life for each lamp. Some lamps may fail or terminate their life in a shorter period of time than other similar lamps.
- If the projector indicates that the lamp should be replaced, i.e., if the LAMP REPLACE indicator lights up, replace the lamp with a new one IMMEDIATELY after the projector has cooled down. (Follow carefully the instructions in the Lamp Replacement section of this manual.) Continuous use of the lamp with the LAMP REPLACE indicator lighted may increase the risk of lamp explosion.
- A Lamp may explode as a result of vibration, shock or degradation as a result of hours of use as its lifetime draws to an end. Risk of explosion may differ according to the environment or conditions in which the projector and lamp are being used.

IF A LAMP EXPLODES, THE FOLLOWING SAFETY PRECAUTIONS SHOULD BE TAKEN.

If a lamp explodes, disconnect the projector's AC plug from the AC outlet immediately. Contact an authorized service station for a checkup of the unit and replacement of the lamp. Additionally, check carefully to ensure that there are no broken shards or pieces of glass around the projector or coming out from the cooling air circulation holes. Any broken shards found should be cleaned up carefully. No one should check the inside of the projector except those who are authorized trained technicians and who are familiar with projector service. Inappropriate attempts to service the unit by anyone, especially those who are not appropriately trained to do so, may result in an accident or injury caused by pieces of broken glass.

Wiring diagrams
